

17 Rec'd PCT/PTO 19 JUL 2002

PATENT

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I hereby certify that on July 11, 2002, which is the date I am signing this certificate, I am depositing this correspondence and all identified attachments with the U.S. Postal Service, first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

Patty Rasmussen  
Patty Rasmussen

Applicant: Eun Jeong PARK, et al.

Serial No.: 10/088,202

Filed: March 15, 2002

Title: NOVEL DETOXIFIED MUTANTS OF  
*ESCHERICHIA COLI* HEAT-LABILE

ENTEROTOXIN

Examiner: Unassigned

Art Unit: Unassigned

Attorney Docket No.: 58049-00003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Commissioner for Patents  
Washington, D.C. 20231

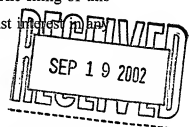
SEP 16 2002

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached Form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Copies of the cited documents are enclosed.



English Language Documents:

1. TOMMASO, et al.: *Infection and Immunity*, Vol. 64, No. 3, pp. 974-979, March 1996; "Induction of Antigen-Specific Antibodies in Vaginal Secretions by Using a Nontoxic Mutant of Heat-Labile Enterotoxin as a Mucosal Adjuvant."
2. MARCHETTI, et al.: *Vaccine*, Vol. 16, No. 1, pp. 33-37, 1998; "Protection against *Helicobacter Pylori* Infection in Mice by Intragastric Vaccination with *H. Pylori* Antigens is Achieved Using a Non-Toxic Mutant of *E. Coli* Heat-Labile Enterotoxin (LT) as Adjuvant."
3. VERWEIJ, et al.: *Vaccine*, Vol. 16, No. 20, pp. 2069-2076, 1998; "Musosal Immunoadjuvant Activity of Recombinant *Escherichia Coli* Heat-Labile Enterotoxin and its B Subunit: Induction of Systemic IgG and Secretory IgA Responses in Mice by Intranasal Immunization with Influenza Virus Surface Antigen."

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks, and that the references be made of record as cited references in the application.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1853 during the pendency of prosecution of this application. Should such additional fees be associated with an extension of time, applicant respectfully requests that this paper be considered a petition therefor. A duplicate of this paper is enclosed for the Deposit Account, should it be needed.

Respectfully submitted,



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<b>FORM PTO-1449</b> (Modified)				Docket No.: 58049-03		Serial No.: 10/088,202	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT				Applicant: Eun Jeong Park, et al.			
JUL 19 2002				Filing Date: 03/15/02		Art Unit: Not Assigned	
<b>UNITED STATES PATENT DOCUMENTS</b>							
Exr's. Inits.	Ref.	Patent No.	Date	Name	Class	Sub Class	Filing Date (if applicable)
N.L.F./	AA						
↓	AB						
	AC						
	AD						
↓	AE						
<b>FOREIGN PATENT DOCUMENTS</b>							
Exr's. Init.	Ref.	Document No.	Date	Country	Class	Sub	Translati on? Yes No
	AF						
	AG						
	AH						X
<b>OTHER REFERENCES (Including Author, Date, Title, Pertinent Pages, Etc.)</b>							
Exr's. Inits.	Ref.	Bibliographic Data					
N.L.F./	AI	TOMMASO, et al.: <i>Infection and Immunity</i> , Vol. 64, No. 3, pp. 974-979, March 1996; "Induction of Antigen-Specific Antibodies in Vaginal Secretions by Using a Nontoxic Mutant of Heat-Labile Enterotoxin as a Mucosal Adjuvant."					
↓	AJ	MARCHETTI, et al.: <i>Vaccine</i> , Vol. 16, No. 1, pp. 33-37, 1998; "Protection against <i>Helicobacter pylori</i> Infection in Mice by Intragastric Vaccination with <i>H. Pylori</i> Antigens is Achieved Using a Non-Toxic Mutant of <i>E. Coli</i> Heat-Labile Enterotoxin (LT) as Adjuvant."					
↓	AK	VERWEIJ, et al.: <i>Vaccine</i> , Vol. 16, No. 20, pp. 2069-2076, 1998; "Musosal Immunoadjuvant Activity of Recombinant <i>Escherichia Coli</i> Heat-Labile Enterotoxin and its B Subunit: Induction of Systemic IgG and Secretory IgA Responses in Mice by Intranasal Immunization with Influenza Virus Surface Antigen."					
Examiner Vanessa Ford/				Date Considered 04/25/2009			
<p>* Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. ¶ 609. Draw line through citation (i.e., <u>citation</u>) if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

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JUL 19 2002				Filing Date: 03/15/02		Art Unit: Not Assigned	
<b>UNITED STATES PATENT DOCUMENTS</b>							
Exr's. Inits.	Ref.	Patent No.	Date	Name	Class	Sub Class	Filing Date (if applicable)
	AA						
	AB						
	AC						
	AD						
	AE						
<b>FOREIGN PATENT DOCUMENTS</b>							
Exr's. Init.	Ref	Document No.	Date	Country	Class	Sub	Translation? Yes No
	AF						
	AG						
	AH						X
<b>OTHER REFERENCES (Including Author, Date, Title, Pertinent Pages, Etc.)</b>							
Exr's. Inits.	Ref.	Bibliographic Data					
N.L.F./	AI	TOMMASO, et al.: <i>Infection and Immunity</i> , Vol. 64, No. 3, pp. 974-979, March 1996; "Induction of Antigen-Specific Antibodies in Vaginal Secretions by Using a Nontoxic Mutant of Heat-Labile Enterotoxin as a Mucosal Adjuvant."					
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	AK	VERWEIJ, et al.: <i>Vaccine</i> , Vol. 16, No. 20, pp. 2069-2076, 1998; "Musosal Immunoadjuvant Activity of Recombinant <i>Escherichia Coli</i> Heat-Labile Enterotoxin and its B Subunit: Induction of Systemic IgG and Secretory IgA Responses in Mice by Intranasal Immunization with Influenza Virus Surface Antigen."					
Examiner		/Vanessa Ford/			Date Considered		
					04/25/2009		
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